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DATE MAILED: 03/16/2010

NOTICE OF ALLOWANCE AND FEE(S) DUE

29683 7590 03/16/2010

HARRINGTON & SMITH 4 RESEARCH DRIVE, Suite 202 SHELTON, CT 06484-6212

EXAMINER				
BRANDT, CHRISTOPHER M				
ART UNIT	PAPER NUMBER			
2617				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/500,404	10/22/2004	Tsuyoshi Kashima	885A.0002.U1(US)	4456			
TITLE OF INVENTION: NODE SELECTING METHOD							

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/16/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE: shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

maintenance fee notificati	ions.							hould be completed where correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDE	NCE ADDRESS (Note: Use Blo	ock 1 for	any change of address)	No Fee pag	te: A certificate of e(s) Transmittal. The ers. Each additions	mailin is certi I papei	g can only be used fo ficate cannot be used f r, such as an assignme	or domestic mailings of the for any other accompanying nt or formal drawing, must
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								(Depositor's name)
								(Signature)
				L				(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR	₹	ATTC	ORNEY DOCKET NO.	CONFIRMATION NO.
10/500,404	10/22/2004			Tsuyoshi Kashima		88	35A.0002.U1(US)	4456
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nonprovisional	NO		\$1510	\$300	\$0		\$1810	06/16/2010
EXAMI	NER		ART UNIT	CLASS-SUBCLASS				
BRANDT, CHR	ISTOPHER M		2617	455-443000				
"Fee Address" indic PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AN	ndence address (or Cha /122) attached. cation (or "Fee Address' or more recent) attach	nge of 'Indiced. Us	Correspondence ation form e of a Customer		o 3 registered pater ively, de firm (having as a agent) and the nam orneys or agents. If printed.	memb es of u no nan	per a 2proper is 3	ocument has been filed for
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Advance Order - #	o small entity discount p		ed)	o. Payment of Fee(s): (Ple A check is enclosed. Payment by credit ca The Director is hereb overpayment, to Dep	rd. Form PTO-2038	isatt	ached.	
	SMALL ENTITY statu	s. See	37 CFR 1.27.	☐ b. Applicant is no los	nger claiming SMA	LLEN	TITY status. See 37 Cl	FR 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requeecords of the United Sta	ired) tes Pat	will not be accepte ent and Trademark	d from anyone other than Office.	the applicant; a reg	stered	attorney or agent; or th	ne assignee or other party in
Authorized Signature _					Date			
Typed or printed name					Registration 1			
This collection of informa an application. Confidenti submitting the completed this form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 2231	tion is required by 37 C ality is governed by 35 application form to the ons for reducing this bur rginia 22313-1450. DC .3-1450.	FR 1.3 U.S.C USPT den, sl NOT	11. The informatic . 122 and 37 CFR O. Time will vary hould be sent to th SEND FEES OR	on is required to obtain or 1.14. This collection is es depending upon the indi e Chief Information Offic COMPLETED FORMS T	retain a benefit by stimated to take 12 vidual case. Any co er, U.S. Patent and O THIS ADDRES:	he pub minute ommen Trader S. SEN	dic which is to file (and s to complete, includin ts on the amount of tir mark Office, U.S. Dep D TO: Commissioner	I by the USPTO to process) ig gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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29683 7	590 03/16/2010	EXAMINER			
HARRINGTON	& SMITH	BRANDT, CHRISTOPHER M			
4 RESEARCH DRIVE, Suite 202			ART UNIT PAPER NUMBER		
SHELTON, CT 0	5484-6212	2617			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 431 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 431 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/500 404 KASHIMA, TSUYOSHI Notice of Allowability Examiner Art Unit CHRISTOPHER M. BRANDT 2617 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1, X This communication is responsive to applicant's amendment/arguments submitted on January 8, 2010, The allowed claim(s) is/are 1-10,13-16 and 18. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material

/Christopher M Brandt/

Examiner, Art Unit 2617

9. 🔲 Other _____.

Supervisory Patent Examiner, Art Unit 2617

/George Eng/

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DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Walter J. Malinowski (Reg. No. 43,423) on March 12, 2010. This amendment was authorized by Mr. Malinowski based on In re Bilski.

The application has been amended as follows:

1. (CURRENTLY AMENDED) A method comprising:

specifying, by a processor, nodes present within a communication zone of a mobile node:

counting a number of overlaps between the communication zone of the mobile node and communication zones for each of the specified nodes; and

selecting, as a candidate node for next communication with the mobile node, the specified node for which a largest number of overlaps has been counted, where the selection of the candidate node occurs without using a received signal strength indicator.

2. (CURRENTLY AMENDED) A method comprising:

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specifying, by a processor, neighbor nodes present within a communication zone of a mobile node:

specifying neighbor nodes for each specified neighbor node of the mobile node that are present within a communication zone of a corresponding one of the specified neighbor nodes of the mobile node;

counting a number of overlaps between communication zones that are within the communication zone of the corresponding one of the specified neighbor nodes of the mobile node for each of the specified nodes; and

selecting, as a candidate node for next communication with the mobile node, the specified neighbor node of the mobile node having a largest number of overlaps has been counted, where the selection of the candidate node occurs without using a received signal strength indicator.

Reasons for Allowance

Claims 1-10, 13-16, and 18 are allowed.

The following is an examiner's statement of reasons for allowance:

Applicant's invention is drawn to a method and an apparatus in order to select a candidate node for communication with a mobile node. Specifically, applicant's invention includes specifying, by a processor, nodes present within a communication zone of a mobile node, counting a number of overlaps between the communication zone of the mobile node and communication zones for each of the specified nodes, and selecting, as a candidate node for next communication with the mobile node, the specified node for which a largest number of overlaps has been counted, where the selection of the candidate node occurs without using a received signal strength indicator.

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Applicant's independent claims 1, 2, and 15 each recite, inter alia, counting a number of

overlaps between the communication zone of the mobile node and communication zones for

each of the specified nodes, and selecting, as a candidate node for next communication with the

mobile node, the specified node for which a largest number of overlaps has been counted, where

the selection of the candidate node occurs without using a received signal strength indicator.

Chheda is concerned with the optimization of neighbor sets during soft hand-off of mobile units

(title, abstract). However, Chheda and a thorough search do not disclose the counting of

overlaps and selection of a candidate node based on the largest number of overlaps that are

counted. Therefore, applicant's claims 1, 2, and 15 comprise a particular combination of

elements, which is neither taught nor suggest by the prior art.

Accordingly, applicant's invention is allowed for these reasons and applicant's

amendments and arguments.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

Any response to this Office Action should be faxed to (571) 273-8300 or mailed to:

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

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Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Brandt whose telephone number is (571) 270-1098.

The examiner can normally be reached on 7:30a.m. to 5p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

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/Christopher M Brandt/

Examiner, Art Unit 2617

March 12, 2010

/George Eng/

Supervisory Patent Examiner, Art Unit 2617